

12/07/2008

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAR 31	IFICDB, IFIPAT, and IFIUIDB enhanced with new custom IPC display formats
NEWS	3	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	4	MAR 31	CA/CAPplus and CASREACT patent number format for U.S. applications updated
NEWS	5	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	6	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	7	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	8	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	9	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	10	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	11	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	12	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	13	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	14	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	15	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	16	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	17	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	18	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	19	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	20	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	21	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	22	JUL 28	CA/CAPplus patent coverage enhanced
NEWS	23	JUL 28	EPFULL enhanced with additional legal status information from the epline Register
NEWS	24	JUL 28	IFICDB, IFIPAT, and IFIUIDB reloaded with enhancements
NEWS	25	JUL 28	STN Viewer performance improved
NEWS	26	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	27	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts

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page images from 1967-1998

NEWS 28 AUG 15 CAOLD to be discontinued on December 31, 2008

NEWS 29 AUG 15 CAplus currency for Korean patents enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 15:03:00 ON 15 AUG 2008

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 15:03:16 ON 15 AUG 2008

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FILE COVERS 1907 - 15 Aug 2008 VOL 149 ISS 8

FILE LAST UPDATED: 14 Aug 2008 (20080814/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s us 206028754/pn

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L1 0 US 206028754/PN  
(US206028754/PN)

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L2 1 US 20060128754/PN  
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=> sel rn  
E1 THROUGH E64 ASSIGNED

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.29	5.50

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8  
DICTIONARY FILE UPDATES: 14 AUG 2008 HIGHEST RN 1041071-62-8

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and  
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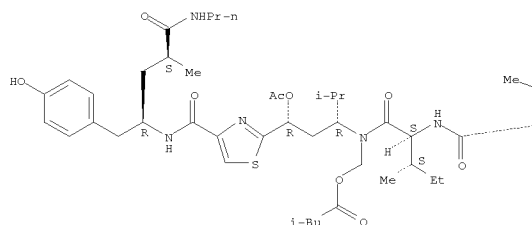
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 RN 698391-62-7 REGISTRY  
 ED Entered STN: 24 Jun 2004  
 CN Butanoic acid, 3-methyl-, [[(1R,3R)-3-(acetyloxy)-3-[4-[[[(1R,3S)-1-[(4-hydroxyphenyl)methyl]-3-methyl-4-oxo-4-(propylamino)butyl]amino]carbonyl]-

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OTHER NAMES:  
 CN Tubulysin A propylamide  
 FS STEREOSEARCH  
 MF C46 H72 N6 O9 S  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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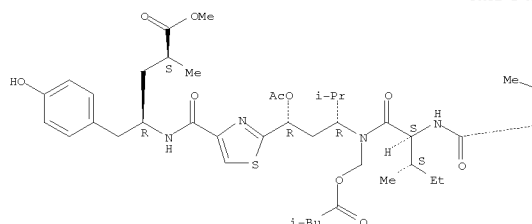


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 ED Entered STN: 24 Jun 2004  
 CN Benzenepentanoic acid, γ-[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-α-methyl-, methyl ester, (αS,γR)- (CA INDEX NAME)

OTHER NAMES:  
 CN Tubulysin A methyl ester  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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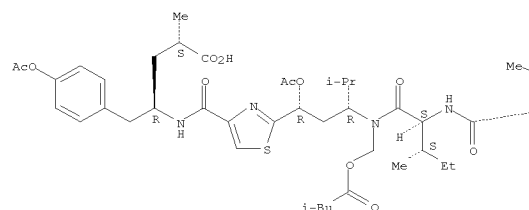
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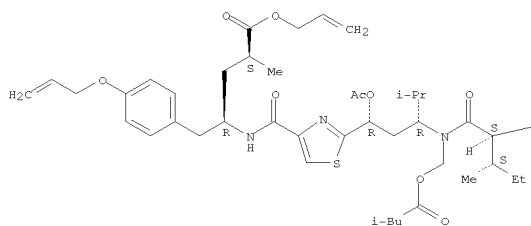
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LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

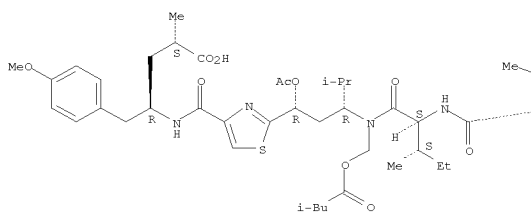
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oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
thiazolyl]carbonyl]amino]-4-methoxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C44 H67 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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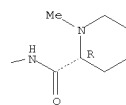
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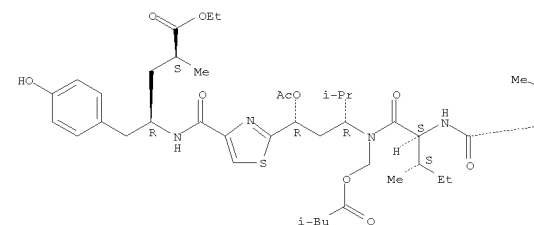
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ED Entered STN: 23 Jun 2004  
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oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ethyl ester,  
( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
FS STEREOSEARCH  
MF C45 H69 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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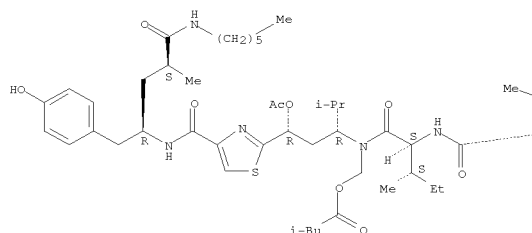
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ED Entered STN: 23 Jun 2004  
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FS STEREOSEARCH  
MF C49 H78 N6 O9 S  
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LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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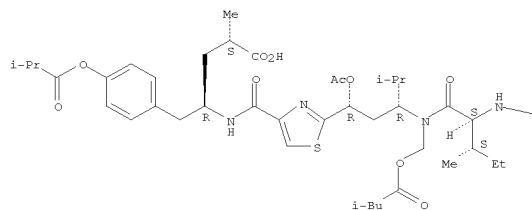


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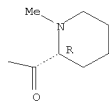
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ED Entered STN: 23 Jun 2004  
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MF C47 H71 N5 O11 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (+).

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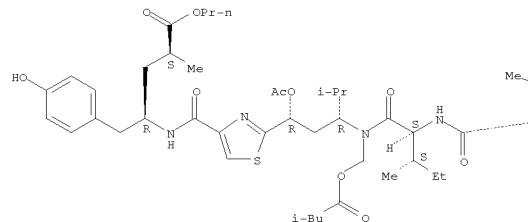
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OTHER NAMES:  
CN Tubulysin A propyl ester  
FS STEREOSEARCH  
MF C46 H71 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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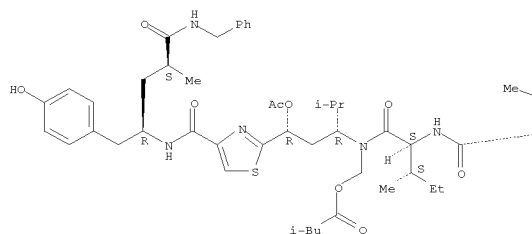
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rbonyl]-2-thiazolyl]-1-(1-methylethyl)propyl][(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]methyl ester (CA INDEX NAME)

OTHER NAMES:  
CN Tubulysin A benzylamide  
FS STEREOSEARCH  
MF C50 H72 N6 O9 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (+).

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PAGE 1-B

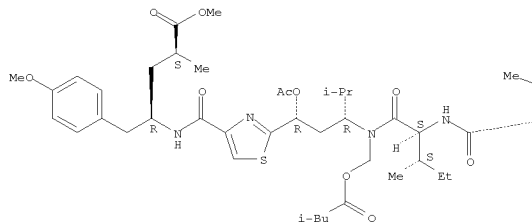


L3 ANSWER 11 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-88-7 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid, γ-[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-methoxy-α-methyl-, methyl ester, (αS,γR)- (CA INDEX NAME)

OTHER NAMES:  
CN Tubulysin A methyl ether methyl ester  
FS STEREOSEARCH  
MF C45 H69 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

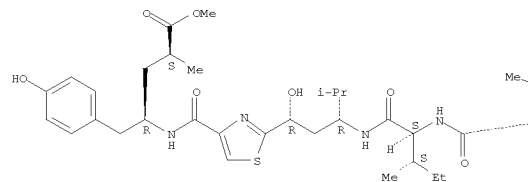
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-87-6 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid, 4-hydroxy-γ-[[[2-[(1R,3R)-1-hydroxy-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-α-methyl-, methyl ester, (αS,γR)- (CA INDEX NAME)

FS STEREOSEARCH  
MF C36 H55 N5 O7 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

12/07/2008

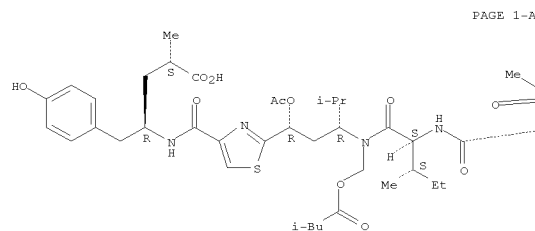
10-535,630.trn

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L3 ANSWER 13 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 697236-86-5 REGISTRY
CN Entered STN: 22 Jun 2004
ED Benzenepentanonic acid,  $\gamma$ -[[[2-(1R,3R)-1-(acetyloxy)-4-methyl-3-
[[[2S,3S]-3-methyl-1,2-[[[(2R)-1-(1-oxoethyl)-1-oxido-2-
[[[3-methyl-1-oxobutyl]amino]amino]-1-oxopentyl]][(3-methyl-1-
oxobutyl)-3-methylamino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-
 $\alpha$ -methyl-, (aS,yR)- (CA INDEX NAME)
FS STEREOSEARCH
MC C43 H65 N5 O11 S
LF CA
SR
STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

```

Absolute stereochemistry.



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PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

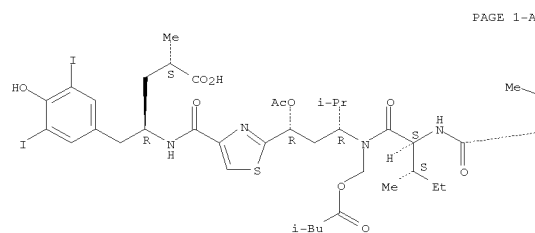
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER 15 OF 64  REGISTRY  COPYRIGHT 2008 ACS on STN
RN 697236-84-3  REGISTRY
ED Entered STN: 22 Jun 2004
CN Benzenesulfonamic acid,  $\gamma$ -[([2-([1R,3R)-1-(acetyloxy)-4-methyl-3-
([2R,3S)-3-methyl-1-([1R)-1-methyl-2-piperidinyl]carbonylamino]-1-
oxoethyl)]amino)-1-oxobutyl]methyl]amino]pentyl]-4-
thiazolyl]carbonyl]amino]-4-hydroxy-3,5-diodo- $\alpha$ -methyl-,
( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H63 I2 N5 O10 S
SR CA
LC STN Files: CA, CAPLUS, CSAcreat, TOXCENTER, USPSTATFULL

```

Absolute stereochemistry.



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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

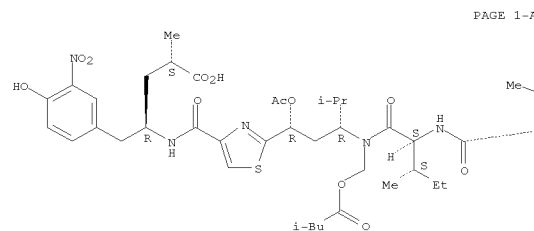
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER L4 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
RN 697236-85-4 REGISTRY
ED Entered STN 22 Jun 2004
CN
Benzenepentanoic acid,  $\gamma$ -[[[2-(1R,3R)-1-(acetoxyloxy)-4-methyl-3-
(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-1-piperidinyl]carbonyl]amino]-1-
oxopentyl]]-3-methyl-1-oxobutoxy]methyl]amino]pentyl, 4-
thiazolyl[[carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-3-nitro-,
( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)
FS
STEREOSEARCH
MF C43 H64 N6 O12 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

```

Absolute stereochemistry.



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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

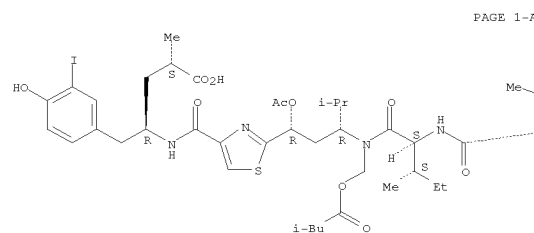
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER ME OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
RN 697236-83-2 REGISTRY
ED Entered- STN 22 Jun 2004
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[2S,3S]-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonylamino]-1-oxoethyl]1]-(4-oxobutoxy)-1-oxobutoxy]methyl]amino]pentyl]-4-thiazolyl]carbonyl]-4-hydroxy-3-iodo-6-methyl-, (aS,yR)- (CA INDEX NAME)
FS STEREOSearch
MC C43 H64 I N5 O10 S
SR
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

```

Absolute stereochemistry.



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PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

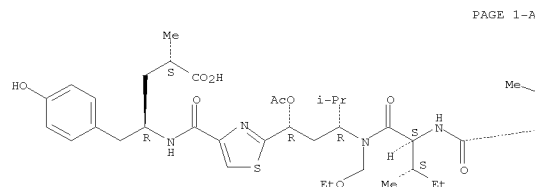
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

12/07/2008

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L3 ANSWER 17 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-82-1 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-3-  
[(ethoxymethyl)[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-  
piperidinyl]carbonyl]amino]-1-oxopentyl]amino]-4-methylpentyl]-4-  
thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C40 H61 N5 O9 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

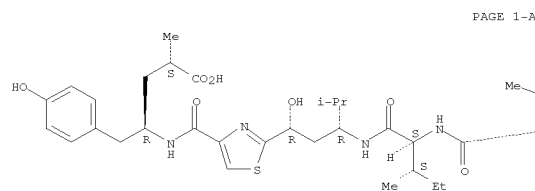


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-80-9 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-  
3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-,  
( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
FS STEREOSEARCH  
MF C35 H53 N5 O7 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

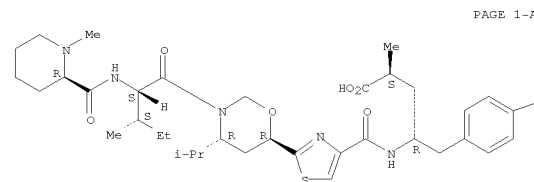


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-81-0 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid, 4-hydroxy- $\alpha$ -methyl- $\gamma$ -[[[2-[(4R,6R)-  
tetrahydro-4-(1-methylethyl)-3-[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-  
piperidinyl]carbonyl]amino]-1-oxopentyl]-2H-1,3-oxazin-6-yl]-4-  
thiazolyl]carbonyl]amino]-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
FS STEREOSEARCH  
MF C36 H53 N5 O7 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



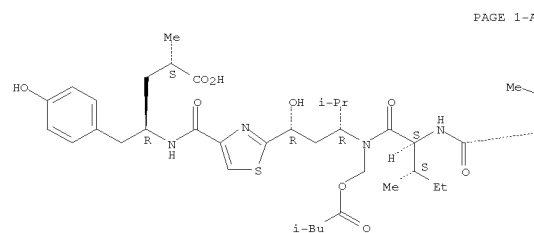
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 20 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 697236-78-5 REGISTRY  
ED Entered STN: 22 Jun 2004  
CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-  
3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
oxopentyl]][(3-methyl-1-oxobutyl)methyl]amino]pentyl]-4-  
thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX  
NAME)  
FS STEREOSEARCH  
MF C41 H63 N5 O9 S  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

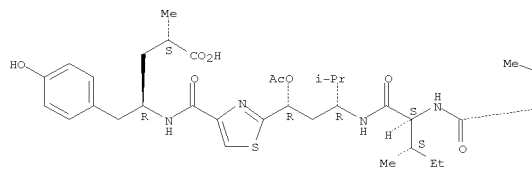
12/07/2008

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L3 ANSWER 21 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 697236-77-4 REGISTRY  
 ED Entered STN: 22 Jun 2004  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -  
 methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C37 H55 N5 O8 S  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

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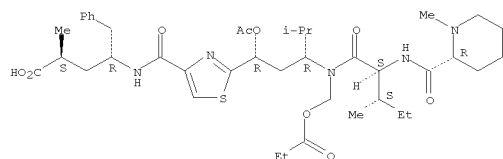


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 368870-67-1 REGISTRY  
 ED Entered STN: 12 Nov 2001  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-  
 $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tubulysin F  
 FS STEREOSEARCH  
 MF C41 H61 N5 O9 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



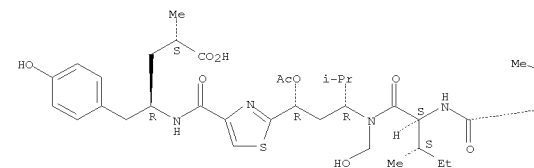
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 697236-76-3 REGISTRY  
 ED Entered STN: 22 Jun 2004  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-3-  
 [(hydroxymethyl) [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-  
 piperidinyl]carbonyl]amino]-1-oxopentyl]amino]-4-methylpentyl]-4-  
 thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C38 H57 N5 O9 S  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

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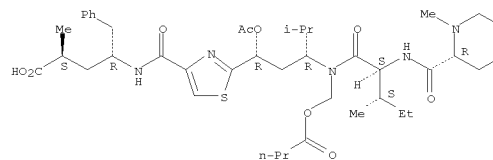


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 309935-58-8 REGISTRY  
 ED Entered STN: 20 Dec 2000  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-  
 $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tubulysin E  
 FS STEREOSEARCH  
 MF C42 H63 N5 O9 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

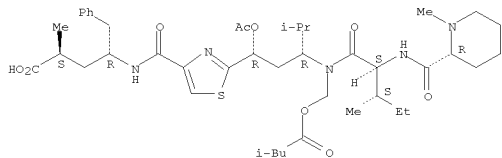
7 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER 25 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 309935-57-7 REGISTRY  
ED Entered STN: 20 Dec 2000  
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX  
NAME)  
OTHER NAMES:  
CN (+)-Tubulysin D  
CN Tubulysin D  
FS STEREOSEARCH  
MF C43 H65 N5 O9 S  
SR CA  
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

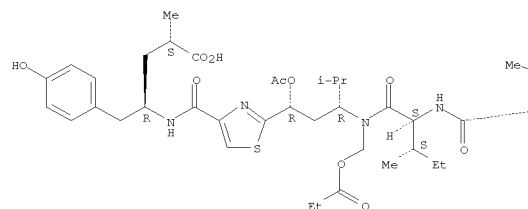
12 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 205304-88-7 REGISTRY  
ED Entered STN: 10 May 1998  
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
oxopentyl]](1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-  
4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
OTHER NAMES:  
CN Tubulysin C  
FS STEREOSEARCH  
MF C41 H61 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

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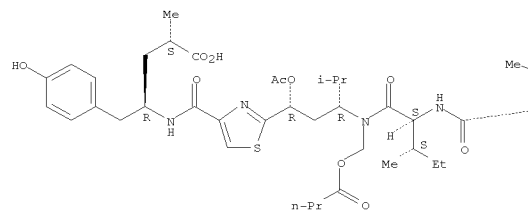
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L3 ANSWER 27 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 205304-87-6 REGISTRY  
ED Entered STN: 10 May 1998  
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
oxopentyl]](1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-  
hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)  
OTHER NAMES:  
CN Tubulysin B  
FS STEREOSEARCH  
MF C42 H63 N5 O10 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

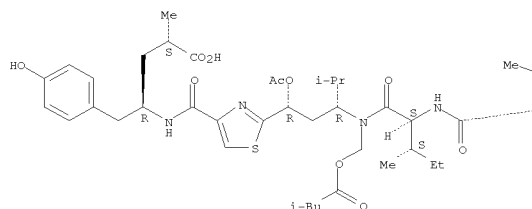
12/07/2008

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L3 ANSWER 28 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 205304-86-5 REGISTRY  
 ED Entered STN: 10 May 1998  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
 thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tubulysin A  
 FS STEREOSEARCH  
 MF C43 H65 N5 O10 S  
 SR CA  
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Absolute stereochemistry.

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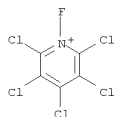
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

15 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L3 ANSWER 29 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 130433-70-4 REGISTRY  
 ED Entered STN: 16 Nov 1990  
 CN Pyridinium, 2,3,4,5,6-pentachloro-1-fluoro-, salt with  
 trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Methanesulfonic acid, trifluoro-, ion(1-), 2,3,4,5,6-pentachloro-1-  
 fluoropyridinium  
 OTHER NAMES:  
 CN 1-Fluoro-2,3,4,5,6-pentachloropyridinium triflate  
 CN 1-Fluoropentachloropyridinium triflate  
 CN N-Fluoropentachloropyridinium triflate  
 MF C5 Cl5 F N . C F3 O3 S  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER,  
 USPATFULL  
 (\*File contains numerically searchable property data)

CM 1

CRN 130433-69-1  
 CMF C5 Cl5 F N



CM 2

CRN 37181-39-8  
 CMF C F3 O3 S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 28 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)  
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 30 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 114615-82-6 REGISTRY  
 ED Entered STN: 28 May 1988  
 CN 1-Propanaminium, N,N,N-tripropyl-, (T-4)-tetraoxoruthenate(1-) (1:1) (CA  
 INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1-Propanaminium, N,N,N-tripropyl-, (T-4)-tetraoxoruthenate(1-) (9CI)  
 CN Ruthenate (RuO41-), (T-4)-, N,N,N-tripropyl-1-propanaminium (9CI)  
 OTHER NAMES:  
 CN Tetra-n-propylammonium perruthenate  
 CN Tetrapropylammonium perruthenate  
 CN Tetrapropylammonium perruthenate(1-)  
 CN Tetrapropylammonium tetraoxoruthenate  
 CN Tetrapropylammonium tetraoxoruthenate(1-)  
 MF Cl2 H28 N . O4 Ru  
 SR CAS Client Services  
 LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,  
 CHEMLIST, CSCHEM, MEDLINE, TOXCENTER, USPAT2, USPATFULL

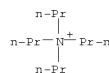
CM 1

CRN 14333-21-2  
 CMF O4 Ru  
 CCI CCS



CM 2

CRN 13010-31-6  
 CMF Cl2 H28 N



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

166 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 166 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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10-535,630.trn

L3 ANSWER 31 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 38078-09-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Sulfur, (N-ethylethanaminato)trifluoro-, (T-4)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ethanamine, N-ethyl-, sulfur complex  
 OTHER NAMES:  
 CN (Diethylamino)sulfur trifluoride  
 CN (Diethylamino)sulphur trifluoride  
 CN (Diethylamino)trifluorosulfur  
 CN (N,N-Diethylamino)sulfur trifluoride  
 CN DAST  
 CN DAST (fluorinating agent)  
 CN Diethylaminosulfate trifluoride  
 CN Trifluoro(diethylamino)sulfur  
 MF C4 H10 F3 N S  
 Supplier: Aurora Fine Chemicals  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

628 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 631 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 33 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 25952-53-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1,3-Propanediamine, N3-(ethylcarbonimidoyl)-N1,N1-dimethyl-, hydrochloride  
 (1:1) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1,3-Propanediamine, N'-(ethylcarbonimidoyl)-N,N-dimethyl-, monohydrochloride (9CI)  
 CN Carbodiimide, [3-(dimethylamino)propyl]ethyl-, monohydrochloride (8CI)  
 OTHER NAMES:  
 CN 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride  
 CN 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide monohydrochloride  
 CN 1-Ethyl-3-(3'-dimethylaminopropyl)carbodiimide hydrochloride  
 CN 1-Ethyl-3-(3'-dimethylaminopropyl)carbodiimide monohydrochloride  
 CN 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride  
 CN 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide monohydrochloride  
 CN 3-[3-(Dimethylamino)propyl]-1-ethylcarbodiimide hydrochloride  
 CN EDAP  
 CN EDC  
 CN EDC (coupling agent)  
 CN EDCI  
 CN N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride  
 CN N-Ethyl-N'-(3-dimethylaminopropyl)carbodiimide hydrochloride  
 CN WSC  
 CN [3-(Dimethylamino)propyl]ethylcarbodiimide hydrochloride  
 AR 7084-11-9  
 DR 93128-40-6  
 MF C8 H17 N3 . Cl H  
 CI CCM  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, RTECS\*, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (1892-57-5)

Et-N=C=N-(CH2)3-NMe2

● HC1

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2140 REFERENCES IN FILE CA (1907 TO DATE)  
 82 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2150 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 32 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 26412-87-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridine, compd. with sulfur trioxide (1:1) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Pyridine, compd. with SO3 (6CI, 7CI)  
 CN Sulfur trioxide, compd. with pyridine (1:1) (9CI)  
 OTHER NAMES:  
 CN NSC 75831  
 CN Pyridine sulfur trioxide  
 CN Pyridine-sulfur trioxide (1:1)  
 CN Pyridine-sulfur trioxide complex  
 CN Pyridine-sulfur trioxide complex (1:1)  
 CN Sulfur trioxide-pyridine  
 MF C5 H5 N . O3 S  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, Gmelin\*, MSDS-OHS, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

CM 1  
 CRN 7446-11-9  
 CMP O3 S

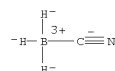


CM 2  
 CRN 110-86-1  
 CMP C5 H5 N



207 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 207 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 34 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 25895-60-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Borate(1-), (cyano-KC)trihydro-, sodium (1:1), (T-4)- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Borate(1-), (cyano-KC)trihydro-, sodium, (T-4)- (9CI)  
 CN Borate(1-), (cyano-C)trihydro-, sodium, (T-4)-  
 CN Borate(1-), cyanotrihydro-, sodium (8CI)  
 OTHER NAMES:  
 CN Sodium borocyanohydride  
 CN Sodium cyanoborohydride  
 CN Sodium cyanotrihydroborate  
 CN Sodium cyanotrihydroborate(1-)  
 MF C H3 B N . Na  
 CI CCS, COM  
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, PROMT, PS, RTECS\*, TOXCENTER, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (33195-00-5)



● Na+

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1048 REFERENCES IN FILE CA (1907 TO DATE)  
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1052 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER 35 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 20667-12-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Silver oxide (Ag2O) (CA INDEX NAME)  
OTHER NAMES:  
CN Argentous oxide  
CN Disilver monoxide  
CN Disilver oxide  
CN Silver oxide  
CN Silver(I) oxide  
DR 1302-04-1  
MF Ag2 O  
CI CCM  
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,  
CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DETHERM\*,  
EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS,  
PIRA,  
PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Ag—O—Ag

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7865 REFERENCES IN FILE CA (1907 TO DATE)  
96 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
7876 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 37 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7791-25-5 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Sulfuryl chloride (CA INDEX NAME)  
OTHER NAMES:  
CN Sulfonyl chloride  
CN Sulfonyl dichloride  
CN Sulfur chloride oxide (SCl2O2)  
CN Sulfur chloride oxide (SO2Cl2)  
CN Sulfur oxychloride (SO2Cl2)  
CN Sulfuric dichloride  
CN Sulfuric oxychloride  
CN Sulfuryl chloride (SO2Cl2)  
CN Sulfuryl dichloride  
CN Sulphuryl chloride  
MF Cl2 O2 S  
CI CCM  
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
CBNB,  
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DETHERM\*, EMBASE,  
ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB,  
IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*,  
TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2653 REFERENCES IN FILE CA (1907 TO DATE)  
54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2656 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 36 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 9013-79-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Esterase (CA INDEX NAME)  
OTHER NAMES:  
CN Ester hydrolase  
CN Esterase ES46.5K  
CN Nonspecific esterase  
CN Trizym RK 3  
DR 9035-77-2  
MF Unspecified  
CI CCM, MAN  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS,  
CASREACT, CBNB, CIN, CSCHM, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA,  
MEDLINE, NAPRALERT, PIRA, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL,  
USPATOLD

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14015 REFERENCES IN FILE CA (1907 TO DATE)  
138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
14032 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 38 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7790-99-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Iodine chloride (ICl) (CA INDEX NAME)  
OTHER NAMES:  
CN Chlorine iodide  
CN Chlorine iodide (CLI)  
CN Chlorine moniodide  
CN Iodine chloride  
CN Iodine monochloride  
CN Iodine(I) chloride  
CN Iodochlorine  
CN Iodomonochloride  
CN Iodonium chloride  
CN Wijs' chloride  
MF Cl I  
CI CCM  
LC STN Files: AGRICOLA, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB,  
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DETHERM\*, EMBASE,  
GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS,  
PROMT,  
PS, RTECS\*, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Cl—I

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2303 REFERENCES IN FILE CA (1907 TO DATE)  
40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2305 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
37 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

12/07/2008

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L3 ANSWER 39 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7664-41-7 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Ammonia (CA INDEX NAME)  
OTHER NAMES:  
CN Ammonia gas  
CN Ammonia-14N  
CN Nitro-Sil  
CN R 717  
CN R 717 (ammonia)  
CN Refrigerent R717  
CN Spirit of Hartshorn  
DR 8007-57-6, 208990-07-2, 214478-05-4, 558443-52-0  
MF H3 N  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGO, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

NH3

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

162575 REFERENCES IN FILE CA (1907 TO DATE)  
2229 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
162885 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 41 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7632-00-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Nitrous acid, sodium salt (1:1) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Nitrous acid, sodium salt (8CI, 9CI)  
OTHER NAMES:  
CN Anti-Rust  
CN E 250  
CN Erinitrit  
CN Filmerine  
CN M 138C  
CN Nitrous Acid Soda  
CN SNS 40  
CN Sodium nitrite  
CN Sodium nitrite (NaNO2)  
CN Synfat 1004  
DR 56227-20-4, 82497-43-6, 82998-40-1, 32863-15-3  
MF H N O2 . Na  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGO, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, SCISEARCH, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (7782-77-6)

 $\text{O}=\text{N}-\text{OH}$ 

● Na

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14298 REFERENCES IN FILE CA (1907 TO DATE)  
89 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
14326 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 40 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7647-01-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Hydrochloric acid (CA INDEX NAME)  
OTHER NAMES:  
CN Anhydrous hydrochloric acid  
CN Baume HCL  
CN Chloridric acid  
CN Chlorohydric acid  
CN Dilute hydrochloric acid  
CN Enplate PO 236  
CN Hydrochloric acid gas  
CN Hydrogen chloride  
CN Hydrogen chloride (HCl)  
CN Muriatic acid  
CN NSC 77365  
DR 113962-65-5, 51005-19-7, 61674-62-2, 218625-68-4  
MF Cl H  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

HCl

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

113570 REFERENCES IN FILE CA (1907 TO DATE)  
696 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
113897 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
40 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 42 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 7553-56-2 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Iodine (CA INDEX NAME)  
OTHER NAMES:  
CN Actonar  
CN DentaPure DP 90  
CN Diatomic iodine  
CN Diiodine  
CN Eranol  
CN Iodel FD  
CN Iodine (127I2)  
CN Iodine colloidal  
CN Iodine crystals  
CN Iodine molecule (I2)  
CN Iodine sublimed  
CN Iosan Superdip  
CN Jodosan  
CN Molecular iodine  
CN NSC 42355  
CN Tegodyne  
DR 8012-81-5, 8012-85-9, 8031-47-8, 24503-90-0  
MF I2  
CI COM  
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGO, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

I-I

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

65282 REFERENCES IN FILE CA (1907 TO DATE)  
3893 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
65361 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 ANSWER 43 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 7440-44-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Carbon (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1262R97  
 CN 207A  
 CN 207A (carbon)  
 CN 207E3  
 CN 203FP  
 CN 2C98  
 CN 3GX  
 CN 4GCX  
 CN 4GM  
 CN 606R97  
 CN 7144EL  
 CN AC 01  
 CN AC 01 (adsorbent)  
 CN AC 100  
 CN AC 100 (adsorbent)  
 CN AC 40  
 CN AC 40 (adsorbent)  
 CN ACP-W  
 CN Acticarbon 25K  
 CN Acticarbon ENO  
 CN Acticarbon TK  
 CN Actitex CS 1501  
 CN Actitex SC 1501  
 CN Actitex WWP 3  
 CN Activated carbon  
 CN Active carbon beads  
 CN Advanced Patterning Film  
 CN AG 2  
 CN AG 2 (catalyst support)  
 CN AG 2-4  
 CN AG 3  
 CN AG 3 (adsorbent)  
 CN AG 5  
 CN AG 5 (adsorbent)  
 CN AG 95  
 CN AG 95 (carbon)  
 CN AG-M  
 CN AG-M (carbon)  
 CN AG-OV 1  
 CN AGN 1  
 CN AGN 1 (carbon)  
 CN AGN 2  
 CN AGN 2 (carbon)  
 CN AGN 3  
 CN AGS 3  
 CN AGS 4  
 CN AGS 4 (adsorbent)  
 CN AK  
 CN AK (adsorbent)  
 CN Alfa Aesar 41774

L3 ANSWER 44 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 7440-05-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Palladium (CA INDEX NAME)  
 OTHER NAMES:  
 CN E 1010/W  
 CN IG 0218A  
 CN MPP 030  
 CN MPP 050  
 CN MPP 080  
 CN P 50  
 CN P 50 (metal)  
 CN Palladex 600  
 CN Palladium black  
 CN Palladium element  
 CN SFP 1001P  
 MF Pd  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Pd

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

103918 REFERENCES IN FILE CA (1907 TO DATE)  
 7607 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 104006 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 43 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY  
 DR 798556-12-4, 798556-14-6, 12789-22-9, 130960-03-1, 67167-41-3, 114680-00-1, 37196-29-5, 137322-21-5, 76416-61-0, 82600-58-6, 83138-28-7, 90452-98-5, 26837-67-2, 39422-04-3, 39434-34-9, 116788-82-0, 208519-32-8, 208728-20-5  
 MF C  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

C

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

379159 REFERENCES IN FILE CA (1907 TO DATE)  
 15361 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 379835 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 45 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 1333-74-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Hydrogen (CA INDEX NAME)  
 OTHER NAMES:  
 CN Dihydrogen  
 CN Hydrogen (H2)  
 CN Hydrogen molecule  
 CN Mol. hydrogen  
 CN Molecular hydrogen  
 CN Orthohydrogen  
 CN Parahydrogen  
 CN Protium  
 DR 725200-57-7  
 MF H2  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

H-H

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

345658 REFERENCES IN FILE CA (1907 TO DATE)  
 3896 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 346105 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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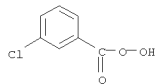
L3 ANSWER 46 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 1310-73-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Sodium hydroxide (Na(OH)) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Sodium hydroxide (8CI)  
 OTHER NAMES:  
 CN Aetznatron  
 CN Ascarite  
 CN Caustic soda  
 CN Collo-Grillrein  
 CN Collo-Tapetta  
 CN E 33  
 CN E 33 (degreasing agent)  
 CN FC 4370  
 CN GR  
 CN GR (alkali reagent)  
 CN MO 67  
 CN NSC 135799  
 CN Soda, caustic  
 CN StamperPrep  
 CN Tosoh Pearl  
 CN White caustic  
 DR 8012-01-9  
 MF H Na O  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PATDPASPC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)

Na<sup>+</sup>OH

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

102404 REFERENCES IN FILE CA (1907 TO DATE)  
 583 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 102767 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 48 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 937-14-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzenecarboperoxoic acid, 3-chloro- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Peroxybenzoic acid, m-chloro- (7CI, 8CI)  
 OTHER NAMES:  
 CN 3-Chlorobenzenecarboperoxoic acid  
 CN 3-Chloroperbenzoic acid  
 CN 3-Chloroperoxybenzoic acid  
 CN m-Chlorobenzoyl hydroperoxide  
 CN m-Chloroperbenzoic acid  
 CN m-Chloroperoxobenzoic acid  
 CN m-Chloroperoxybenzoic acid  
 CN m-Chloroperoxybenzoic acid  
 CN MCPBA  
 CN NSC 97094  
 MF C7 H5 Cl O3  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PS, RTECS\*, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2643 REFERENCES IN FILE CA (1907 TO DATE)  
 52 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2649 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 47 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 1122-58-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Pyridine, 4-(dimethylamino)- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN γ-(Dimethylamino)pyridine  
 CN 4-(Dimethylamino)pyridine  
 CN DMAP  
 CN DMAP (catalyst)  
 CN N,N-Dimethyl-4-aminopyridine  
 CN N,N-Dimethyl-4-pyridinamine  
 CN p-Dimethylaminopyridine  
 MF C7 H10 N2  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4150 REFERENCES IN FILE CA (1907 TO DATE)  
 104 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4187 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 49 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 543-27-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Carbonochloridic acid, 2-methylpropyl ester (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Formic acid, chloro-, isobutyl ester (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 2-Methylpropyl carbonochloridate  
 CN 2-Methylpropyl chloroformate  
 CN Chlorocarbonic acid isobutyl ester  
 CN Chloroformic acid isobutyl ester  
 CN IBCF  
 CN Isobutoxycarbonyl chloride  
 CN Isobutyl carbonochloridate  
 CN Isobutyl chloridocarbonate  
 CN Isobutyl chlorocarbonate  
 CN Isobutyl chloroformate  
 CN Isobutyloxycarbonyl chloride  
 CN NSC 8429  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CSCHEM, CSNB, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PS, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



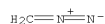
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1770 REFERENCES IN FILE CA (1907 TO DATE)  
 18 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1774 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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L3 ANSWER 50 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 334-88-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Methane, diazo- (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Azimethylene  
 CN Diazirine  
 CN Diazomethane  
 CN Diazonium methylide  
 DR 463-60-5, 16835-99-7, 62024-16-2  
 MF C H2 N2  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4606 REFERENCES IN FILE CA (1907 TO DATE)  
 86 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4607 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 52 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 123-91-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1,4-Dioxane (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN p-Dioxane (8CI)  
 OTHER NAMES:  
 CN 1,4-Diethylene dioxide  
 CN 1,4-Dioxacyclohexane  
 CN 1,4-Dioxan  
 CN 1,4-Dioxin, tetrahydro-  
 CN Diethylene dioxide  
 CN Diethylene ether  
 CN Diethylene oxide  
 CN Dioxan  
 CN Dioxane  
 CN Dioxethylene ether  
 CN NE 220  
 CN NSC 8728  
 CN p-Dioxan  
 DR 54841-74-6, 28347-88-8, 28347-91-3, 39449-24-6  
 MF C4 H8 O2  
 CI CCM, RPS  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SCISEARCH, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19571 REFERENCES IN FILE CA (1907 TO DATE)  
 419 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 19605 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 51 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 128-08-5 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 2,5-Pyrrolidinedione, 1-bromo- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Succinimide, N-bromo- (8CI)  
 OTHER NAMES:  
 CN 1-Bromo-2,5-pyrrolidinedione  
 CN Bromosuccinimide  
 CN N-Bromosuccinimide  
 CN NBS  
 CN NSC 16  
 CN Succinbrominide  
 DR 133435-75-3, 3493-39-8  
 MF C4 H4 Br N O2  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5388 REFERENCES IN FILE CA (1907 TO DATE)  
 62 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5413 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 53 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 121-44-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Ethanamine, N,N-diethyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Triethylamine (7CI, 8CI)  
 OTHER NAMES:  
 CN (Diethylamino)ethane  
 CN N,N-Diethylethanamine  
 CN TEA  
 DR 750564-56-8, 449752-61-8, 168277-99-4, 172227-74-6, 144514-14-7  
 MF C6 H15 N  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

26814 REFERENCES IN FILE CA (1907 TO DATE)  
 1185 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 26869 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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L3 ANSWER 54 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 110-86-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridine (CA INDEX NAME)  
 OTHER NAMES:  
 CN Azabenzene  
 CN Azine  
 CN CP 32  
 CN NSC 141574  
 CN NSC 406123  
 DR 857961-06-9, 733733-47-6, 6999-00-4, 163392-20-9, 62301-32-0, 152758-95-7,  
 85404-19-9, 85404-20-2, 82005-06-9, 45410-39-7  
 MF C5 H5 N  
 CI CCM, RPS  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT2, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

50776 REFERENCES IN FILE CA (1907 TO DATE)  
 6932 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 50844 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 56 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 108-24-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetic acid, 1,1'-anhydride (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Acetic acid, anhydride (9CI)  
 CN Acetic anhydride (8CI)  
 OTHER NAMES:  
 CN Acetic oxide  
 CN Acetyl acetate  
 CN Acetyl anhydride  
 CN Acetyl ether  
 CN Acetyl oxide  
 CN Ethanoic anhydride  
 MF C4 H6 O3  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DETHERM\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

20669 REFERENCES IN FILE CA (1907 TO DATE)  
 513 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 20724 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

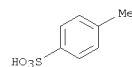
L3 ANSWER 55 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 109-99-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Furan, tetrahydro- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Butane  $\alpha,\delta$ -oxide  
 CN Butane, 1,4-epoxy-  
 CN Cyclotetramethylene oxide  
 CN Furanidine  
 CN NSC 57858  
 CN Oxacyclopentane  
 CN Oxolane  
 CN Tetrahydrofuran  
 CN Tetramethylene oxide  
 CN THF  
 DR 77392-70-2  
 MF C4 H8 O  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT2, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

29451 REFERENCES IN FILE CA (1907 TO DATE)  
 914 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 29519 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 57 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 104-15-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzenesulfonic acid, 4-methyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN p-Toluenesulfonic acid (7CI, 8CI)  
 OTHER NAMES:  
 CN 4-Methylbenzenesulfonic acid  
 CN 4-Toluenesulfonic acid  
 CN Cat 51-53  
 CN Cyzac 4040  
 CN Dryer 900  
 CN K-Cure 1040  
 CN KC 1040  
 CN Nacure 1040  
 CN NSC 167068  
 CN NSC 2167  
 CN p-Methylbenzenesulfonic acid  
 CN p-Methylphenylsulfonic acid  
 CN p-Toluenesulphonic acid  
 CN p-Tolylsulfonic acid  
 CN PTS 100  
 CN Taycoatox 300  
 CN Toluenesulfonic acid  
 CN Toxic acid  
 CN TSA 95  
 AR 25231-46-3, 633305-48-3  
 DR 402-47-1, 128739-80-0, 126033-27-0, 114213-96-6, 51506-29-7, 156627-46-2, 144647-92-7, 100901-72-2, 185568-48-3, 210357-81-6, 227313-49-7, 369371-25-5, 613262-31-0  
 MF C7 H8 O3 S  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DETHERM\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

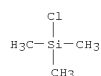
13015 REFERENCES IN FILE CA (1907 TO DATE)  
 531 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 13058 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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L3 ANSWER 57 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L3 ANSWER 59 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 75-77-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Silane, chlorotrimethyl- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Chlorotrimethylsilane  
 CN KA 31  
 CN KA 31 (silane)  
 CN Monochlorotrimethylsilane  
 CN Monochlorotrimethylsilicon  
 CN NSC 15750  
 CN TMCS  
 CN Trimethylchlorosilane  
 CN Trimethylsilane chloride  
 CN Trimethylsilicon chloride  
 CN Trimethylsilyl chloride  
 CN TSL 8031  
 DR 127290-36-2, 36642-33-8  
 MF C3 H9 Cl Si  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*, EMBASE, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USP2, USP2FULL, USP2TOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12148 REFERENCES IN FILE CA (1907 TO DATE)  
 758 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 12162 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 366 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 58 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 76-05-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetic acid, 2,2,2-trifluoro- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Acetic acid, trifluoro- (8CI, 9CI)  
 OTHER NAMES:  
 CN 2,2,2-Trifluoroacetic acid  
 CN NSC 77366  
 CN Perfluoroacetic acid  
 CN TFA  
 CN Trifluoroacetic acid  
 CN Trifluoroethanoic acid  
 MF C2 H F3 O2  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USP2, USP2FULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10160 REFERENCES IN FILE CA (1907 TO DATE)  
 400 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 10195 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 60 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 75-09-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Methane, dichloro- (CA INDEX NAME)  
 OTHER NAMES:  
 CN Aerotherm MM  
 CN Dichloromethane  
 CN F 30  
 CN F 30 (chlorocarbon)  
 CN Freon 30  
 CN HCC 30  
 CN Khladon 30  
 CN Metaclen  
 CN Methane dichloride  
 CN Methylene chloride  
 CN Methylene dichloride  
 CN Narkotil  
 CN NSC 406122  
 CN R 30  
 CN R 30 (refrigerant)  
 CN Solaesthin  
 CN Soleana VDA  
 CN Solmethine  
 MF C H2 Cl2  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USP2, USP2FULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

32738 REFERENCES IN FILE CA (1907 TO DATE)  
 121 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 32832 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

12/07/2008

10-535,630.trn

L3 ANSWER 61 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 75-05-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetonitrile (CA INDEX NAME)  
 OTHER NAMES:  
 CN Acetonitrile cluster  
 CN Cyanomethane  
 CN Ethanenitrile  
 CN Ethyl nitrile  
 CN Methane, cyano-  
 CN Methanecarbonitrile  
 CN Methyl cyanide  
 CN Methyl cyanide (MeCN)  
 CN NSC 7593  
 DR 54841-72-4  
 MF C2 H3 N  
 CI CCM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

42743 REFERENCES IN FILE CA (1907 TO DATE)  
 836 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 42871 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 63 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 64-19-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetic acid (CA INDEX NAME)  
 OTHER NAMES:  
 CN Aci-Jel  
 CN E 260  
 CN Ethanoic acid  
 CN Ethanoic acid monomer  
 CN Ethylic acid  
 CN Glacial acetic acid  
 CN Methanecarboxylic acid  
 CN NSC 111201  
 CN NSC 112209  
 CN NSC 115870  
 CN NSC 127175  
 CN NSC 132953  
 CN NSC 406306  
 CN Vinegar acid  
 DR 77671-22-8  
 MF C2 H4 O2  
 CI CCM  
 Supplier: ALDRICH Chemical Company, Inc.  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

114294 REFERENCES IN FILE CA (1907 TO DATE)  
 5758 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 114560 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 62 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 67-56-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Methanol (CA INDEX NAME)  
 OTHER NAMES:  
 CN Bielecki's solution  
 CN Carbinol  
 CN Methanol cluster  
 CN Methyl alcohol  
 CN Methyl hydroxide  
 CN Methylol  
 CN Monohydroxymethane  
 CN NSC 85232  
 CN Solutions, Bielecki's  
 CN Wood alcohol  
 DR 54841-71-3  
 MF C H4 O  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

157141 REFERENCES IN FILE CA (1907 TO DATE)  
 2231 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 157536 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 64 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 64-17-5 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Ethanol (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ethyl alcohol (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 100C.NPA  
 CN AHD 2000  
 CN Alcare Hand Degermer  
 CN Alcohol  
 CN Alcohol anhydrous  
 CN Algrain  
 CN Anhydrol  
 CN Anhydrol FM 4085  
 CN CDA 19  
 CN CDA 19-200  
 CN Denatured alcohol  
 CN Denatured ethanol  
 CN Desinfektol EL  
 CN Duplicating Fluid 100C.NPA  
 CN Esumiru WK 88  
 CN Ethicap  
 CN Ethyl hydrate  
 CN Ethyl hydroxide  
 CN Germ-X  
 CN Hinetoless  
 CN IMS 99  
 CN Infinity Pure  
 CN Jaysol  
 CN Jaysol S  
 CN Lux  
 CN Methylcarbinol  
 CN Molasses alcohol  
 CN NSC 85228  
 CN Potato alcohol  
 CN SD 3A  
 CN SDA 3A  
 CN Sekundasprit  
 CN Sterillium Rub  
 CN SY Fresh M  
 CN Synasol  
 CN Tecsol  
 CN Tecsol C  
 CN Vinic alcohol  
 DR 8000-16-6, 8024-45-1, 121182-78-3  
 MF C2 H6 O  
 CI CCM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMIST File for up-to-date regulatory information)

12/07/2008

10-535,630.trn

L3 ANSWER 64 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

$\text{H}_3\text{C}-\text{CH}_2-\text{OH}$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

233214 REFERENCES IN FILE CA (1907 TO DATE)  
1781 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
234001 REFERENCES IN FILE CARLUS (1907 TO DATE)  
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

12/07/2008

10-535,630.trn

=>

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

#### Thank you for accessing STN ####

Our services are currently unavailable. The regularly scheduled hours of operations are:

US Eastern time:                      Sunday from 01:00 (1:00 AM) until  
   Saturday at 22:00 (10:00 PM)

On the first Saturday of each month, STN is available only until  
17:00 (5:00 PM).

Tokyo time:                            Sunday from 14:00 (2:00 PM) until  
   Sunday at 11:00 (11:00 AM)

On the Sunday of the first weekend of each month, STN is  
available only until 06:00 (6:00 AM).

Additionally, representatives from the Help Desk and Customer Service may be reached from 08:00 (8:00 AM) to 20:00 (8:00 PM) US Eastern time, Monday through Friday, at the following telephone numbers:

Help Desk                      - (800) 848-6533    North America  
                                 - (614) 447-3698    Elsewhere

Customer Service               - (800) 753-4227    North America  
                                 - (614) 447-3731    Elsewhere

We can also be contacted via email at [HELP@CAS.ORG](mailto:HELP@CAS.ORG).

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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#### Thank you for accessing STN ####

Our services are currently unavailable. The regularly scheduled hours of operations are:

US Eastern time:                      Sunday from 01:00 (1:00 AM) until  
   Saturday at 22:00 (10:00 PM)

On the first Saturday of each month, STN is available only until  
17:00 (5:00 PM).

Tokyo time:                            Sunday from 14:00 (2:00 PM) until  
   Sunday at 11:00 (11:00 AM)

On the Sunday of the first weekend of each month, STN is  
available only until 06:00 (6:00 AM).

Additionally, representatives from the Help Desk and Customer Service  
may be reached from 08:00 (8:00 AM) to 20:00 (8:00 PM) US Eastern  
time, Monday through Friday, at the following telephone numbers:

Help Desk                      - (800) 848-6533    North America  
                                 - (614) 447-3698    Elsewhere

Customer Service               - (800) 753-4227    North America  
                                 - (614) 447-3731    Elsewhere

We can also be contacted via email at [HELP@CAS.ORG](mailto:HELP@CAS.ORG).

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajem1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1                      Web Page for STN Seminar Schedule - N. America  
NEWS 2    AUG 15    CAOLD to be discontinued on December 31, 2008

12/07/2008

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NEWS 3 OCT 07 EPFULL enhanced with full implementation of EPC2000  
NEWS 4 OCT 07 Multiple databases enhanced for more flexible patent  
number searching  
NEWS 5 OCT 22 Current-awareness alert (SDI) setup and editing  
enhanced  
NEWS 6 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT  
Applications  
NEWS 7 OCT 24 CHEMLIST enhanced with intermediate list of  
pre-registered REACH substances  
NEWS 8 NOV 21 CAS patent coverage to include exemplified prophetic  
substances identified in English-, French-, German-,  
and Japanese-language basic patents from 2004-present  
NEWS 9 NOV 26 MARPAT enhanced with FSORT command  
NEWS 10 NOV 26 MEDLINE year-end processing temporarily halts  
availability of new fully-indexed citations  
NEWS 11 NOV 26 CHEMSAFE now available on STN Easy  
NEWS 12 NOV 26 Two new SET commands increase convenience of STN  
searching  
NEWS 13 DEC 01 ChemPort single article sales feature unavailable  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:52:23 ON 07 DEC 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:52:42 ON 07 DEC 2008

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

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DICTIONARY FILE UPDATES: 5 DEC 2008 HIGHEST RN 1080697-25-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

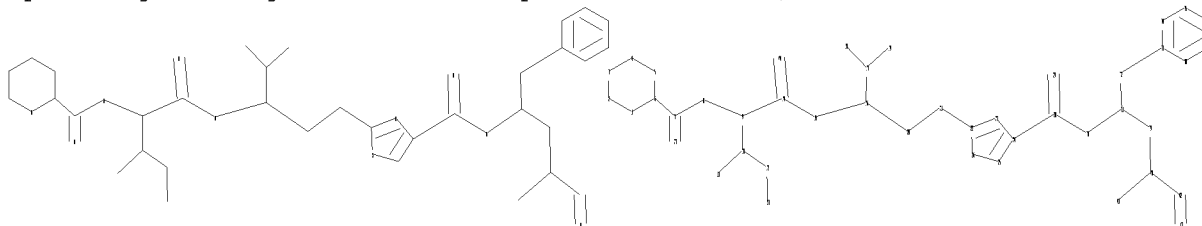
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10-535,630.str



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 27 28 29 30 31 32 39  
40 41 42 43 44

ring nodes :

1 2 3 4 5 6 22 23 24 25 26 33 34 35 36 37 38

chain bonds :

6-7 7-8 7-27 8-9 9-10 9-14 10-11 10-12 12-13 14-15 14-44 15-16 16-17  
16-20 17-18 17-19 20-21 21-22 24-28 28-29 28-30 30-31 31-32 31-39 32-33  
39-40 40-41 40-42 42-43

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 22-23 22-26 23-24 24-25 25-26 33-34 33-38  
34-35 35-36 36-37 37-38

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-27 8-9 14-15 14-44 15-16 22-23 22-26  
23-24 24-25 25-26 28-29 28-30 30-31 42-43

exact bonds :

6-7 9-10 9-14 10-11 10-12 12-13 16-17 16-20 17-18 17-19 20-21 21-22  
24-28 31-32 31-39 32-33 39-40 40-41 40-42

12/07/2008

10-535,630.trn

normalized bonds :

33-34 33-38 34-35 35-36 36-37 37-38

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS  
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:Atom 34:Atom 35:Atom  
36:Atom 37:Atom 38:Atom 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS  
44:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:53:12 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 360 TO 1080

PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:53:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 753 TO ITERATE

100.0% PROCESSED 753 ITERATIONS

81 ANSWERS

SEARCH TIME: 00.00.01

L3 81 SEA SSS FUL L1

=> s l3

SAMPLE SEARCH INITIATED 14:53:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS

4 ANSWERS

12/07/2008

10-535,630.trn

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 360 TO 1080  
PROJECTED ANSWERS: 4 TO 200

L4 4 SEA SSS SAM L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.82	179.03

FILE 'CAPLUS' ENTERED AT 14:53:40 ON 07 DEC 2008  
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FILE COVERS 1907 - 7 Dec 2008 VOL 149 ISS 24  
FILE LAST UPDATED: 5 Dec 2008 (20081205/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 13

L5 35 L3

=> s 13 and (py<2003 or ay<2003 or pry<2003)

35 L3  
22961955 PY<2003  
4500736 AY<2003  
3969189 PRY<2003

L6 7 L3 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

12/07/2008

10-535,630.trn

12/07/2008

10-535,630.trn

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:1060832 CAPLUS  
DOCUMENT NUMBER: 142:43740  
TITLE: Aptamer-toxin molecules and methods for using same  
INVENTOR(S): Stanton, Martin; Kurz, Markus; Wilson, Charles  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 600,007.  
CODEN: USXXCO  
Patent  
DOCUMENT TYPE: English  
LANGUAGE:  
FAMILY ACC. NUM. COUNT: 11  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040249130	A1	20041209	US 2004-826077	20040415
US 20040022727	A1	20040205	US 2003-600007	20030618
AU 2004232848	A2	20041104	AU 2004-232848	20040421
AU 2004232848	A1	20041104		
CA 2523260	A1	20041104	CA 2004-2523260	20040421
WO 2004094614	A2	20041104	WO 2004-US12670	20040421
WO 2004094614	A3	20060727		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, US				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1620547	A2	20060201	EP 2004-760163	20040421
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				
JP 2007525177	T	20070906	JP 2006-513287	20040421
US 20050124565	A1	20050609	US 2004-873853	20040621
US 20050159351	A1	20050721	US 2004-980211	20041102
WO 2005116255	A2	20051208	WO 2005-US12797	20050415
WO 2005116255	A3	20060413		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, US				
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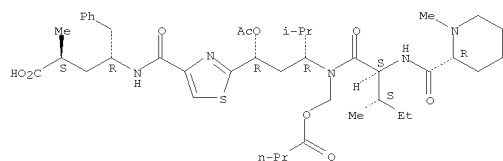
L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
ACCESSION NUMBER: 2004-829504 A2 20040421  
DOCUMENT NUMBER: 141:23346  
TITLE: Manufacturing processes for tubulysin derivatives  
INVENTOR(S): Hoeftle, Gerhard; Glaser, Nicole; Steinmetz, Heinrich; Leibold, Thomas; Sasse, Florenz  
PATENT ASSIGNEE(S): Gesellschaft Fuer Biotechnologische Forschung MbHh (Gbf), Germany  
SOURCE: Ger. Offen., 34 pp.  
CODEN: GWXXRX  
Patent  
DOCUMENT TYPE: German  
LANGUAGE:  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

AB Materials and methods are provided to prepare therapeutic conjugates for the treatment of proliferative diseases. The therapeutic conjugates of the invention comprise a targeting moiety conjugated to a therapeutic moiety. The therapeutic moiety of the conjugates of the present invention have a cytotoxic effect and are useful in the treatment of proliferative diseases.

IT 309935-58-8D, Tubulysine, derivs., aptamer conjugates  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(aptamer-toxin conjugates for targeted treatment of proliferative diseases)

RN 309935-58-8 CAPLUS  
CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
ACCESSION NUMBER: 2004:450512 CAPLUS  
DOCUMENT NUMBER: 141:23346  
TITLE: Manufacturing processes for tubulysin derivatives  
INVENTOR(S): Hoeftle, Gerhard; Glaser, Nicole; Steinmetz, Heinrich; Leibold, Thomas; Sasse, Florenz  
PATENT ASSIGNEE(S): Gesellschaft Fuer Biotechnologische Forschung MbHh (Gbf), Germany  
SOURCE: Ger. Offen., 34 pp.  
CODEN: GWXXRX  
Patent  
DOCUMENT TYPE: German  
LANGUAGE:  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10254439	A1	20040603	DE 2002-10254439	20021121
WO 2004046170	A2	20040603	WO 2003-EP11603	20031020
WO 2004046170	A3	20040701		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003283282	A1	20040615	AU 2003-283282	20031020
EP 1562979	A2	20050817	EP 2003-775204	20031020
EP 1562979	B1	20081029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006518704	T	20060817	JP 2004-552485	20031020
AT 412659	T	20081115	AT 2003-775204	20031020
US 20060128754	A1	20060615	US 2005-535630	20051107
PRIORITY APPLN. INFO.:			DE 2002-10254439	A 20021121
			WO 2003-EP11603	W 20031020

OTHER SOURCE(S): CASREACT 141:23346; MARPAT 141:23346  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention concerns a compound of the subsequent tubulysin general formula I [R = H, C1-4-alkyl, aryl, OR1 NR1R2,NH-(CH2)2-4; R1 = H,

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 Cl-6-alkyl, aryl; R2 = H, Cl-6-alkyl, aryl; S = H, halo, NO2, NHR3; U =  
 H,  
 halo, NO2, NHR3; R3 = H, HCO, Cl-4-alkyl-CO; T = H, OR4; R4 = H,  
 Cl-4-alkyl, aryl, COR5, P(O)(OR6)2, SO3R6; R5 = Cl-6-alkyl, alkenyl,  
 aryl,  
 heteroaryl; R6 = H, Cl-4-alkyl, metal ion; V = H, R7, or (for W = O) O;  
 R7  
 = H, Cl-4-alkyl, COR8 ; R8 = Cl-4-alkyl, alkenyl, aryl; W = H,  
 Cl-4-alkyl,  
 (for V = O) O; X = H, C 1-4 alkyl, alkenyl, CH2OR9; R9 = H, C 1-4 alkyl,  
 alkenyl, aryl, COR10; R10 = Cl-6-alkyl, alkenyl, aryl, heteroaryl; Y =  
 (for Z = CH3 or COR11) free electron pair or (for Z = CH3) O; R11 =  
 Cl-4-alkyl, CF3, aryl and/or Z = (for Y = O or free electron pair) CH3 or  
 (for Y = free electron pair) COR11]. A process for the prepn. of I is  
 characterized by the acid-catalyzed splitting of the ester II [R10 =  
 Cl-6-alkyl; T = H, OH] (preferably HCl in dioxane) or by a hard base  
 (esp.

NH3) in alc. (esp. MeOH), acylation, redn., oxidn., alkylation,  
 halogenation, esterification, etherification or reaction with Grignard or  
 alkylolithium reagents. Thus, Tubulysin A benzylamide (III) was prepd.  
 from Tubulysin A via amidation of the isobutyryl mixed anhydride with  
 PhCH2NH2 in THF contg. EtN(CHMe2)2.

IT 697762-87-1P

RL: BPN (Biosynthetic preparation); IMF (Industrial manufacture); SPN  
 (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);  
 PREP (Preparation); USES (Uses)

(manufacture of tubulysin derivs. via acid or base cleavage of the

ester

side chain)

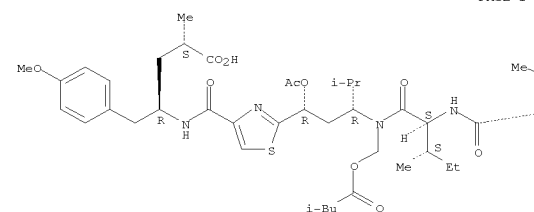
RN 697762-87-1 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
 thiazolyl]carbonyl]amino]-4-methoxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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IT 697236-76-3P 697236-78-5P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); RACT (Reactant or reagent); USES (Uses)

(manufacture of tubulysin derivs. via acid or base cleavage of the

ester

side chain)

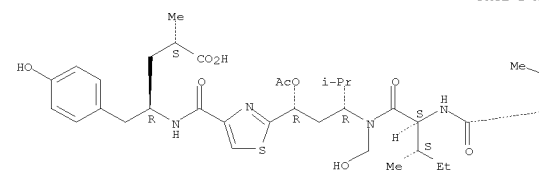
RN 697236-76-3 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-3-  
 [(hydroxymethyl)[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-  
 piperidinyl]carbonyl]amino]-1-oxopentyl]amino]-4-methylpentyl]-4-  
 thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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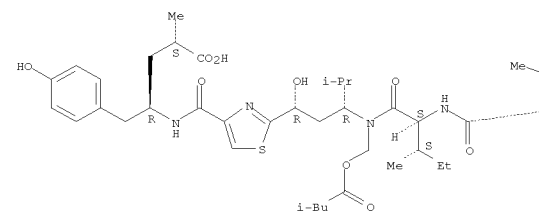


RN 697236-78-5 CAPLUS

CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-  
 3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-  
 thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX  
 NAME)

Absolute stereochemistry.

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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IT 697236-77-4P 697236-82-1P 697236-83-2P

697236-84-3P 697236-85-4P 697236-86-5P  
 697236-87-6P 697751-29-4P, Tubulysin A benzylamide  
 697751-30-7P, Tubulysin A propyl ester 697762-77-9P  
 697762-78-0P 697762-79-1P 697762-88-2P  
 697762-92-8P 698391-61-6P, Tubulysin A methyl ester  
 698391-62-7P, Tubulysin A propylamide

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)

(manufacture of tubulysin derivs. via acid or base cleavage of the

ester

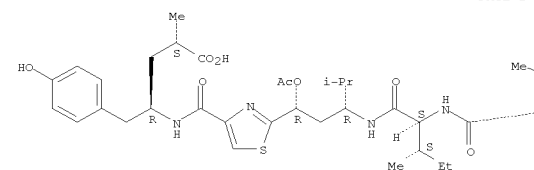
side chain)

RN 697236-77-4 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-  
 [[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-  
 oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -  
 methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

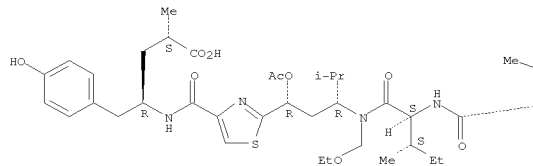
PAGE 1-B



RN 697236-82-1 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-3-[(ethoxymethyl)[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]-4-methylpentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

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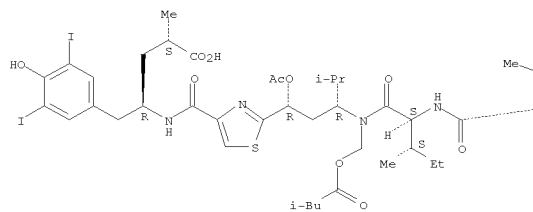
PAGE 1-B



RN 697236-83-2 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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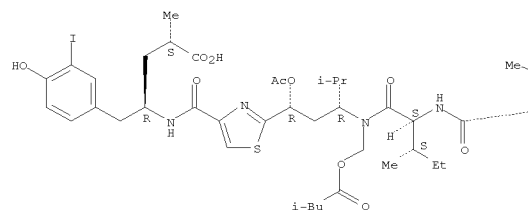
RN 697236-85-4 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-3-nitro-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 thiazolyl]carbonyl]amino]-4-hydroxy-3-iodo- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

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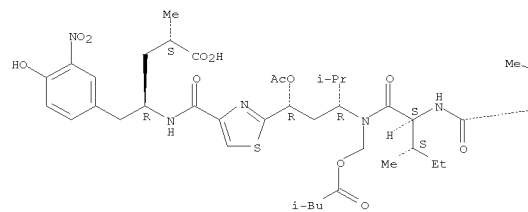


RN 697236-84-3 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-3,5-diiodo- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 697236-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-1-oxido-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

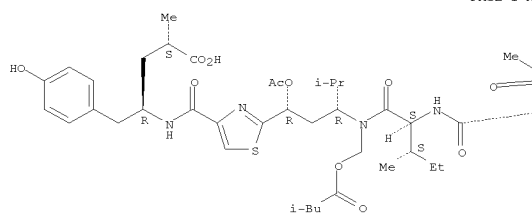
Absolute stereochemistry.

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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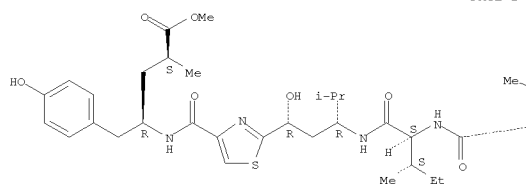


RN 697236-87-6 CAPLUS  
 CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, methyl ester, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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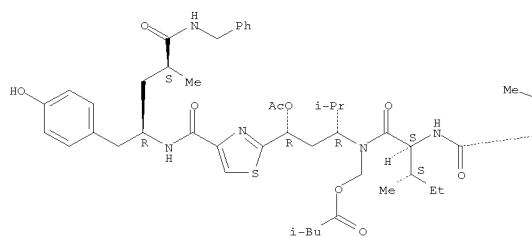


RN 697751-29-4 CAPLUS  
 CN Butanoic acid, 3-methyl-, [[[(1R,3R)-3-(acetyloxy)-3-[4-[[[(1R,3S)-1-[(4-hydroxyphenyl)methyl]-3-methyl-4-oxo-4-[[phenylmethyl]amino]butyl]amino]carbonyl]-2-thiazolyl]-1-(1-methylethyl)propyl][(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]methyl ester (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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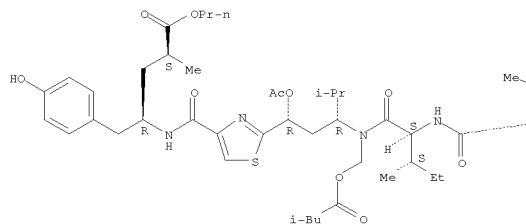


RN 697751-30-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, propyl ester, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 697762-77-9 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-4-(2-methyl-1-oxopropoxy)-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

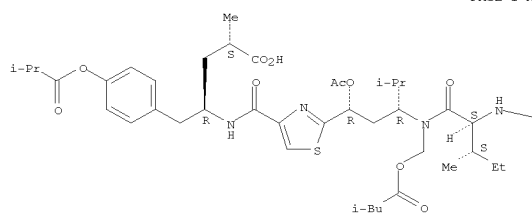
Absolute stereochemistry. Rotation (+).

12/07/2008

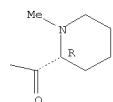
10-535,630.trn

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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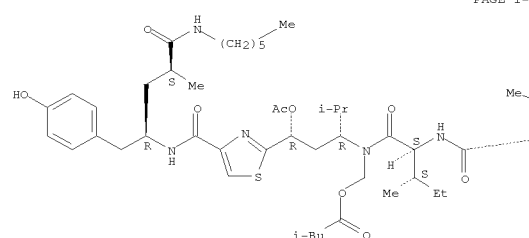


RN 697762-78-0 CAPLUS  
 CN Butanoic acid, 3-methyl-, [[[(1R,3R)-3-(acetyloxy)-3-[4-[[[(1R,3S)-4-(hexylamino)-1-[(4-hydroxyphenyl)methyl]-3-methyl-4-oxobutyl]amino]carbonyl]-2-thiazolyl]-1-(1-methylethyl)propyl][(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]methyl ester (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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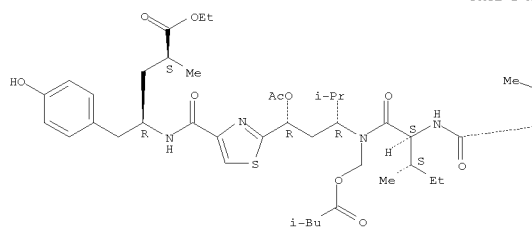


RN 697762-79-1 CAPLUS  
 CN Benzenepentanoic acid, γ-[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy-α-methyl-, ethyl ester, (αS,γR)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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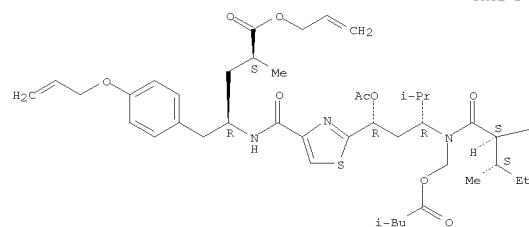


RN 697762-88-2 CAPLUS  
 CN Benzenepentanoic acid, γ-[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-α-methyl-4-(2-propen-1-yloxy)-, 2-propen-1-yl ester, (αS,γR)- (CA INDEX NAME)

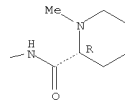
Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 697762-92-8 CAPLUS  
 CN Benzenepentanoic acid, 4-(acetyloxy)-γ-[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-α-methyl-, (αS,γR)- (CA INDEX NAME)

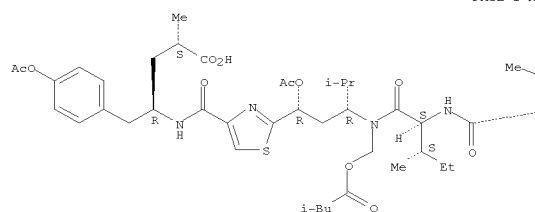
Absolute stereochemistry.

12/07/2008

10-535,630.trn

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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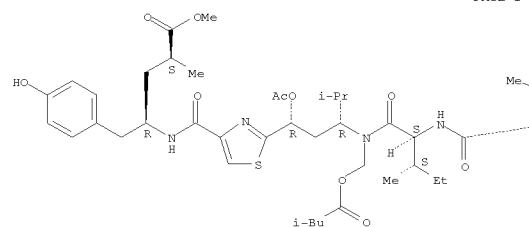


RN 698391-61-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, methyl ester, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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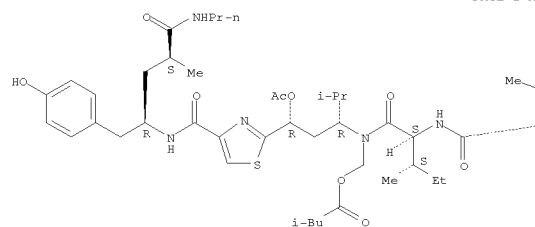


RN 698391-62-7 CAPLUS  
 CN Butanoic acid, 3-methyl-, [[[(1R,3R)-3-(acetyloxy)-3-[4-[[[(1R,3S)-1-[(4-hydroxyphenyl)methyl]-3-methyl-4-oxo-4-(propylamino)butyl]amino]carbonyl]-2-thiazolyl]-1-(1-methylethyl)propyl]](2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]methyl ester (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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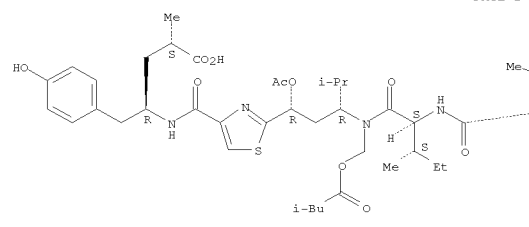
IT 205304-86-5, Tubulysin A 205304-87-6, Tubulysin B  
 205304-88-7, Tubulysin C 309935-57-7, Tubulysin D  
 309935-58-8, Tubulysin E 368870-67-1, Tubulysin F  
 RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
 (manufacture of tubulysin derivs. via acid or base cleavage of the ester side chain)

RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 205304-87-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

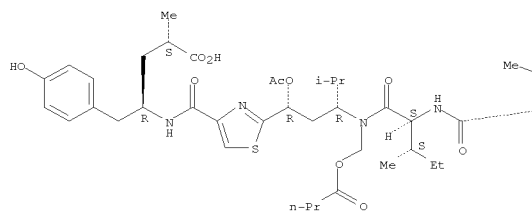
Absolute stereochemistry.

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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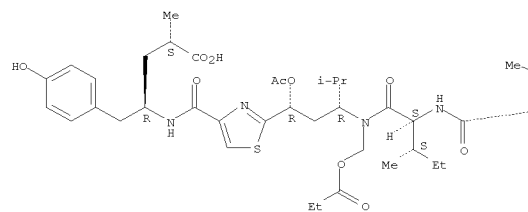
RN 205304-88-7 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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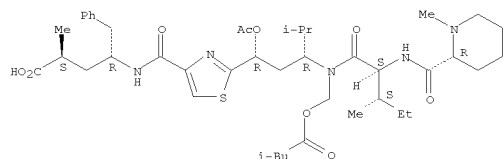


RN 309935-57-7 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

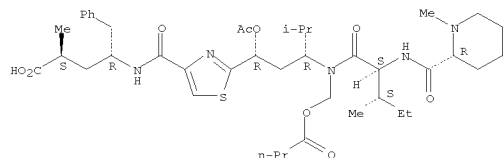
L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 309935-58-8 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

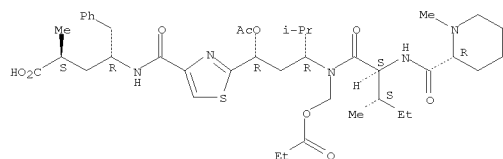
Absolute stereochemistry.



RN 368870-67-1 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.



IT 697236-88-7P, Tubulysin A methyl ether methyl ester

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

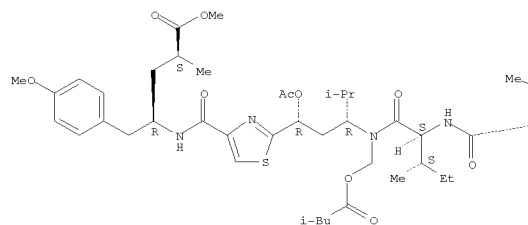
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(prepn. and enzymic hydrolysis of; manif. of tubulysin derivs. via acid or base cleavage of the ester side chain)

RN 697236-88-7 CAPLUS

CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-methoxy- $\alpha$ -methyl-, methyl ester, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

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IT 697236-80-9P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation and esterification of; with diazomethane; manufacture of tubulysin derivs. via acid or base cleavage of the ester side chain)

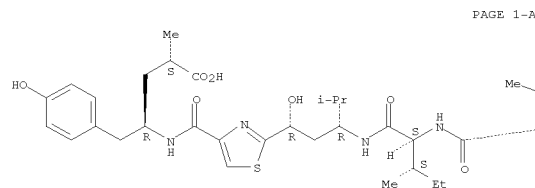
RN 697236-80-9 CAPLUS

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L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 CN Benzenepentanoic acid, 4-hydroxy- $\gamma$ -[[[2-[(1R,3R)-1-hydroxy-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:216844 CAPLUS  
 DOCUMENT NUMBER: 140:248261  
 TITLE: The gene cluster for enzymes of tubulysin biosynthesis  
 of *Angiostreptomyces disciformis* and its use in the manufacture of tubulysins for therapeutic use  
 INVENTOR(S): Hoefle, Gerhard; Mueller, Rolf; Sasse, Florenz; Sandmann, Axel; Bloecker, Helmut  
 PATENT ASSIGNEE(S): Gesellschaft fuer Biotechnologische Forschung m.b.H. (GBF), Germany  
 SOURCE: Ger. Offen., 56 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

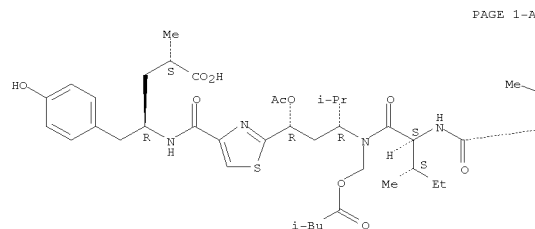
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10241152	A1	20040318	DE 2002-10241152	20020905
WO 2004022586	A2	20040318	WO 2003-EP9780	20030903
WO 2004022586	A3	20041111		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003267036	A1	20040323	AU 2003-267036	20030903
US 20060217360	A1	20060928	US 2005-526572	20051011
PRIORITY APPLN. INFO.:		DE 2002-10241152 A 20020905		
		WO 2003-EP9780 W 20030903		

AB The gene cluster of *Angiostreptomyces disciformis* encoding the enzymes of tubulysin biosynthesis is cloned and characterized. The genes may be expressed in other hosts for the manufacture of tubulysins. The genes were identified by transposon mutagenesis.

IT 205304-86-5DP, Tubulysin A, analogs, derivs. 205304-87-6DP, Tubulysin B, analogs, derivs. 205304-88-7DP, Tubulysin C, analogs, derivs. 309935-57-7DP, Tubulysin D, analogs, derivs. 309935-58-8DP, Tubulysin E, analogs, derivs. 368870-67-1DP, Tubulysin F, analogs, derivs.  
 RI: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 (gene cluster for enzymes of tubulysin biosynthesis of *Angiostreptomyces disciformis* and its use in manuf. of tubulysins for therapeutic use)  
 RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.



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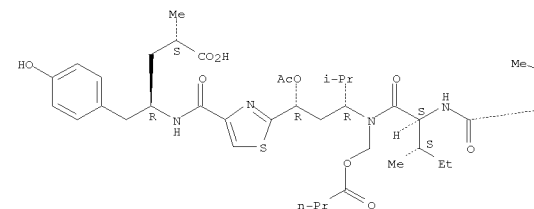


RN 205304-87-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 205304-88-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

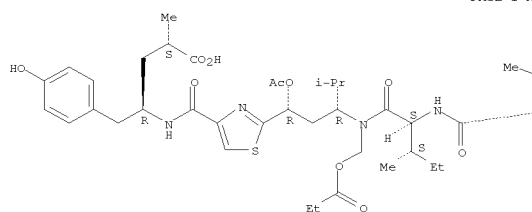
Absolute stereochemistry.

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10-535,630.trn

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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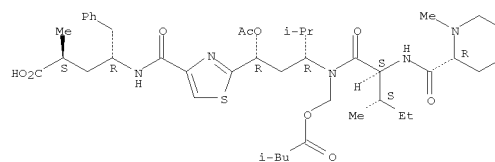
PAGE 1-B



RN 309935-57-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

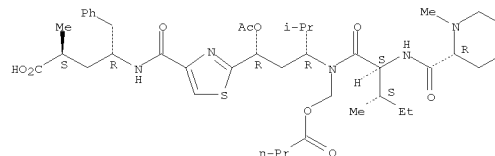
Absolute stereochemistry. Rotation (+).

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 309935-58-8 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

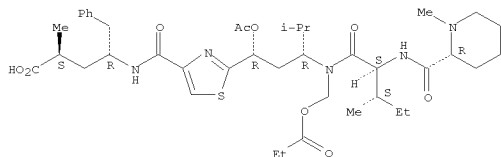
Absolute stereochemistry.



RN 369870-67-1 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:41504 CAPLUS  
 DOCUMENT NUMBER: 140:71010  
 TITLE: Tubulysin conjugates with polymers or biomolecules, and use for the treatment of cancer  
 INVENTOR(S): Doemling, Alexander; Weber, Lutz  
 PATENT ASSIGNEE(S): Morphochem Aktiengesellschaft fuer Kombinatorische Chemie, Germany  
 SOURCE: PCT Int. Appl., 21 pp.  
 CODEN: PIXKD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005326	A2	20040115	WO 2003-EP7415	20030709
WO 2004005326	A3	20040219		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10230875	A1	20040122	DE 2002-10230875	20020709
DE 10305531	A1	20040819	DE 2003-10305531	20030211
AU 2003253048	A1	20040123	AU 2003-253048	20030709
EP 1521769	A2	20050413	EP 2003-762673	20030709
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 20050249740	A1	20051110	US 2005-520791	20050108
PRIORITY APPLN. INFO.:			DE 2002-10230875	A 20020709
			DE 2003-10305531	A 20030211
			WO 2003-EP7415	W 20030709

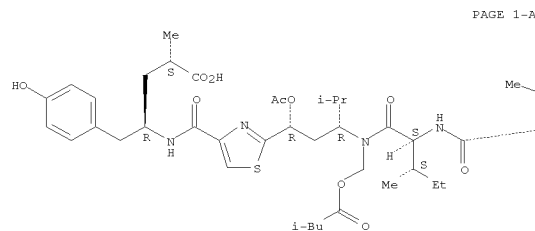
OTHER SOURCE(S): MARPAT 140:71010  
 AB The invention discloses tubulysin conjugates (e.g. of tubulysin A) with polymer or biomols. (e.g. antibodies) and the use thereof in the treatment of cancers.  
 IT 205304-86-5D, Tubulysin A, conjugates with polymers or biomols.  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (tubulysin conjugates with polymers or biomols., and use for treatment of cancer)  
 RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-

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10-535,630.trn

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)

Absolute stereochemistry.

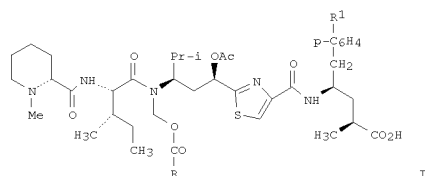


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L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:794958 CAPLUS  
 DOCUMENT NUMBER: 135:331296  
 TITLE: Preparation of stereospecific synthetic tubulysins and intermediates  
 INVENTOR(S): Hofle, Gerhard; Leibold, Thomas; Steinmetz, Heinrich  
 PATENT ASSIGNEE(S): Gesellschaft Fur Biotechnologische Forschung Mbh (Gbf), Germany  
 SOURCE: Ger. Offen., 22 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

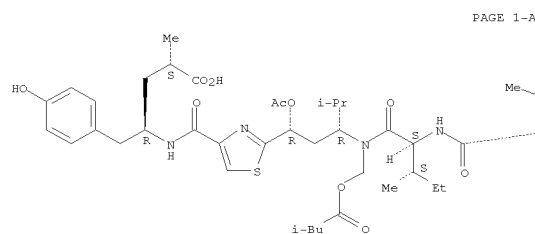
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10008089	A1	20011031	DE 2000-10008089	20000222
<-- PRIORITY APPLN. INFO.: DE 2000-10008089 20000222				
<-- OTHER SOURCE(S): CASREACT 135:331296; MARPAT 135:331296				
GI				



AB Methods for the stereospecific synthesis of tubulysins (I; R = CH<sub>2</sub>CH<sub>3</sub>, (CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>; R<sub>1</sub> = H, OH) and their intermediates and stereoisomers were claimed (no data). The absolute stereochem. configuration of tubulysins was determined. Steps in the preparation included reductive amination of (2S)-2-piperidine carboxylic acid and ring-opening of Boc-N-3-methyl-5-benzylpyrrolidin-2-one, which was prepared from BOC-Phe-OH.  
 IT 205304-86-5, Tubulysin A 205304-87-6, Tubulysin B 205304-88-7, Tubulysin C 309935-57-7, Tubulysin D 309935-58-8, Tubulysin E 368870-67-1, Tubulysin F  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (preparation of stereospecific synthetic tubulysins and intermediates)

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)

Absolute stereochemistry.



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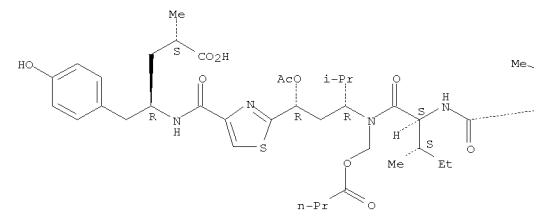


RN 205304-87-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 205304-88-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

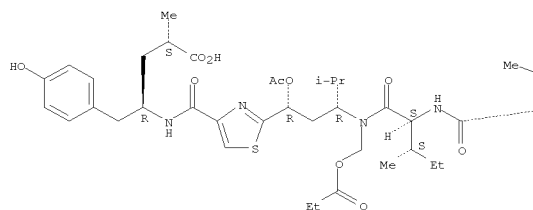
Absolute stereochemistry.

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L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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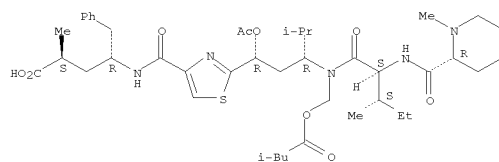
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RN 309935-57-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

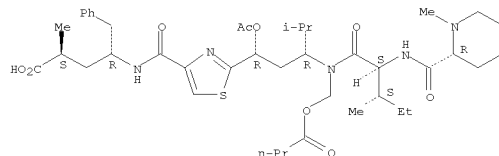
Absolute stereochemistry. Rotation (+).

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 309935-58-8 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

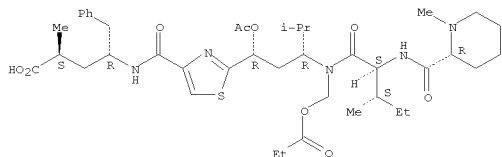
Absolute stereochemistry.



RN 369870-67-1 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:702489 CAPLUS  
 DOCUMENT NUMBER: 134:15006  
 TITLE: Tubulysins, new cytostatic peptides from myxobacteria acting on microtubuli. Production, isolation, physico-chemical and biological properties  
 AUTHOR(S): Sasse, Florenz; Steinmetz, Heinrich; Heil, Jurgen; Hofle, Gerhard; Reichenbach, Hans  
 CORPORATE SOURCE: GBF, Gesellschaft fur Biotechnologische Forschung mbH, Abteilung Naturstoffbiologie, Braunschweig, D-38124, Germany  
 SOURCE: Journal of Antibiotics (2000), 53(9), 879-885  
 CODEN: JANTA7; ISSN: 0021-8820  
 PUBLISHER: Japan Antibiotics Research Association  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB New cytostatic compds., tubulysins, were isolated from the culture broth of strains of the myxobacteria Archangium gephyra and Angiococcus disciformis. The compds. are peptides partly consisting of unusual amino acids and are distantly related to the dolastatins. The tubulysins were not active against bacteria and only little against fungi, but showed high cytostatic activity against mammalian cell lines with IC50 values in the picomolar range. An incubation with 50 ng/mL tubulysin A led to a complete disappearance of the microtubuli network of the cells within 24 h. The more active tubulysin D induced multipolar spindles; at 0.5 ng/mL all mitotic cells showed more than four spindle poles.  
 IT 205304-86-5P, Tubulysin A 205304-87-6P, Tubulysin B 309935-57-7P, Tubulysin D 309935-58-8P, Tubulysin E  
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
 (tubulysins as new cytostatic peptides from myxobacteria acting on microtubuli)  
 RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl]](3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

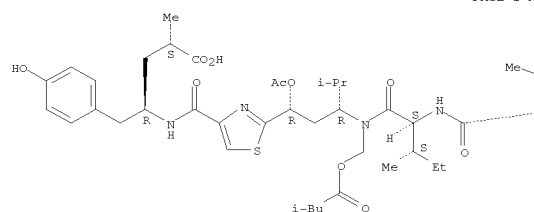
Absolute stereochemistry.

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L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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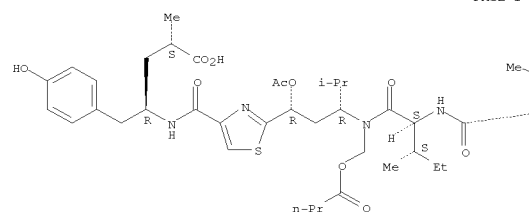


RN 205304-87-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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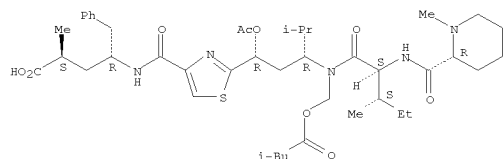
PAGE 1-B



RN 309935-57-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

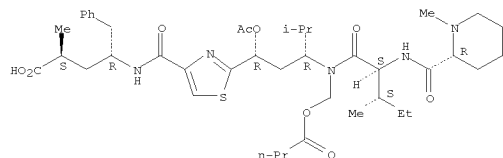
Absolute stereochemistry. Rotation (+).

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 309935-58-8 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:208578 CAPLUS  
 DOCUMENT NUMBER: 128:256473  
 ORIGINAL REFERENCE NO.: 128:50787a,50790a  
 TITLE: Antimycotic and cytostatic compounds manufacture with Archangium Reichenbach, Hans; Hoeffle, Gerhard; Sasse, Florenz; Steinmetz, Heinrich  
 PATENT ASSIGNEE(S): Gesellschaft fuer Biotechnologische Forschung m.b.H. (GBF), Germany  
 SOURCE: Ger. Offen., 16 pp. CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19638870	A1	19980326	DE 1996-19638870	19960923
WO 9813375	A1	19980402	WO 1997-EP5095	19970917
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9745550	A	19980417	AU 1997-45550	19970917
PRIORITY APPLN. INFO.:			DE 1996-19638870	A 19960923
			WO 1997-EP5095	W 19970917

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Tubulysin A (I), B (II), and C (III) are manufactured by culturing *A. gephyra* isolated from a compost sample. Shake-culture of *A. gephyra* in a medium of single-cell protein preparation (Probian), yeast extract, glucose, etc., and chromatog. isolation of I, II, and III were shown. The physicochem. characteristics for these antimycotic and cytotoxic compds. were given. Also given was inhibition of fungus, and human and animal neoplastic cell lines with these Tubulysins.

IT 205304-86-5P, Tubulysin A 205304-87-6P, Tubulysin B 205304-88-7P, Tubulysin C  
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (antimycotic and cytostatic compds. manufacture with *Archangium*)

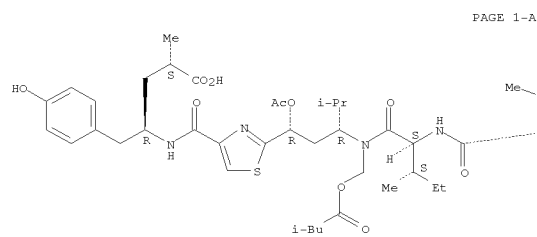
RN 205304-86-5 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-

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L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)  
 [[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(3-methyl-1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)-  
 (CA INDEX NAME)

Absolute stereochemistry.



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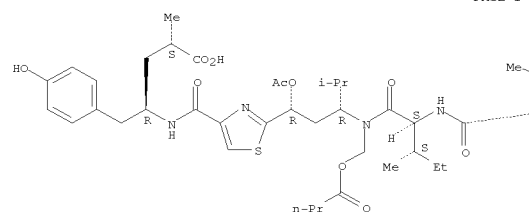


RN 205304-87-6 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxobutoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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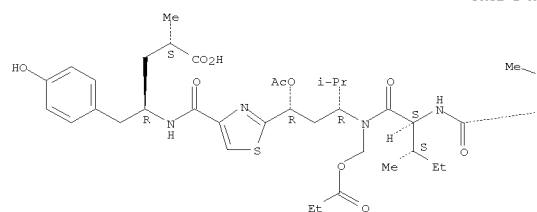


RN 205304-88-7 CAPLUS  
 CN Benzenepentanoic acid,  $\gamma$ -[[[2-[(1R,3R)-1-(acetyloxy)-4-methyl-3-[[[(2S,3S)-3-methyl-2-[[[(2R)-1-methyl-2-piperidinyl]carbonyl]amino]-1-oxopentyl][(1-oxopropoxy)methyl]amino]pentyl]-4-thiazolyl]carbonyl]amino]-4-hydroxy- $\alpha$ -methyl-, ( $\alpha$ S, $\gamma$ R)- (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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